

```

+1   TCACTAGTACCATAATATTACAAACACACACCTCAGAAACGAAGCTTGC
+53  ACATAATGTCTCTTCAACAAGTACCCACAACAGAAACAACCACCAGGAAGAA
1    M S L Q Q V P T T E T T T R K N
+105 CCGAAACGAGGGGCGGAAACGATTACCGACAAACAAATAAGTTTCCTAGAG
17   R N E G R K R F T D K Q I S F L E
+157 TACATGTTTGAGACACAGTCGAGACCCGAGTTAAGGATGAAACACCAGTTGG
34   Y M F E T Q S R P E L R M K H Q L
+209 CACATAAACTCGGGCTTCATCCTCGTCAAGTGGCGATATGGTTCCAGAACAA
51   A H K L G L H P R Q V A I W F Q N K
+261 ACGCGCGCATCAAAGTCGAGGCAGATTGAGCAAGAGTATAACGCGCTAAAG
69   R A R S K S R Q I E Q E Y N A L K
+313 CATAACTACGAGACGCTTGGCTCTAAATCCGAGTCTCTAAAGAAAGAGAATC
86   H N Y E T L A S K S E S L K K E N
+365 AGGCCCTACTCAATCAGgtatggttgcaacttacaatggttgcatccaacta
103  Q A L L N Q
+417 ttttaagtagttttgaatttttgtgacaataaagattgacaaatggtggttga
+469 taattgattaacagTTGGAGGTGCTGAGAAATGTAGCAGAAAGCATCAAGA
109   L E V L R N V A E K H Q E
+521 GAAAACTAGTAGTAGTGGCAGCGGTGAAGAATCGGATGATCGGTTTACGAAC
122  K T S S S G S G E E S D D R F T N
+573 TCTCCGGACGTTATGTTTGGTCAAGAAATGAATGTTCCGTTTTCGCGACGGTT
139  S P D V M F G Q E M N V P F C D G
+625 TTGCGTACTTTGAAGAAGGAAACAGTTTGTGGAGATTGAAGAACAACGCGC
156  F A Y F E E G N S L L E I E E Q L P
+677 AGACCCTCAAAAGTGGTGGGAGTTCTAAAGAGTAAAGAAGGATGTAGAAGTA
174  D P Q K W W E F *
+729 GTAGAGTAAAACTAAACATACCAGATAGTTGGTTTACACTTTGT

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Athb-1  LPEKRRRLTTEOVHLLERSFETHNLEPERKTQLAKLGLQPROVAVWFONRRARWKTQLEEDYDLKSTYDQLLSNYDSIVMDNDRERSEVTSITER
Athb-6  LSEKRRRLSINOVRALERNFELNKLPERKVKLAQELGLQPROVAVWFONRRARWKTQLEEDYCVLKTQYDSYLRNFDSIRRDNESLQRIISKIKTK
Athb-7  NKNHRRRLSDEQIKSLEMMFESSTRLEPRKKVQLARELGLQPROVAIWFOHARRWKSQLETEYNILRQNYDNLASQFESLKKKQALVSELQRLKEA
Athb-12 KSNHRRRLNEEQIKSLELIFESETRLEPRKKVQVARELGLQPROMTIWFONRRARWKTQLEKEYNTLRANYNLASQFETMKKQSLVSELQRLNEE
Hahb-4  RNEGRKRFTTEKQSTFLEYHETQSRPELRMKHQLAKLGLHPRQVAIWFOHARRWKSQLETEYNALKNYETLASKSESLLKKENQALLNQLVEVRNV

```

FIG. 1

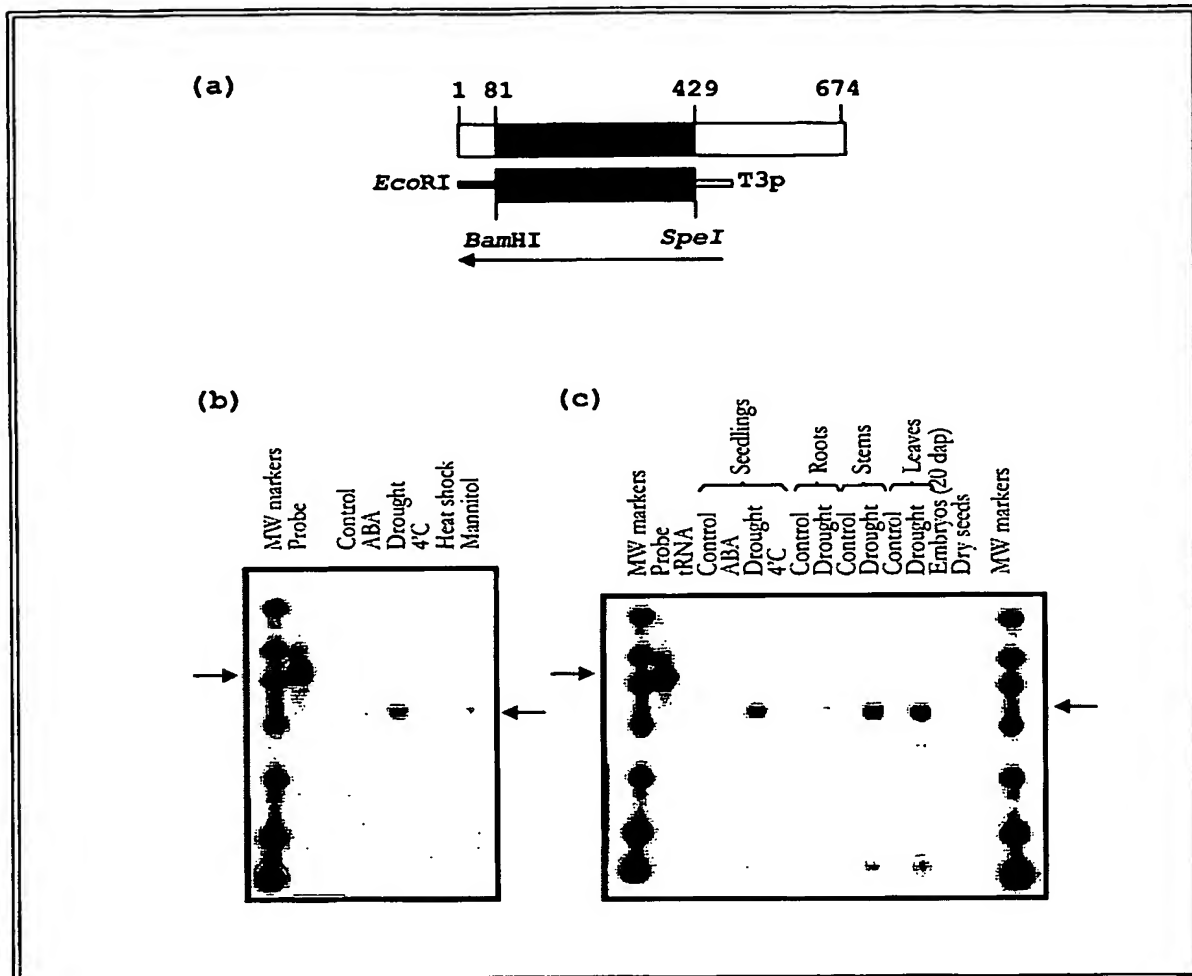


FIG. 2

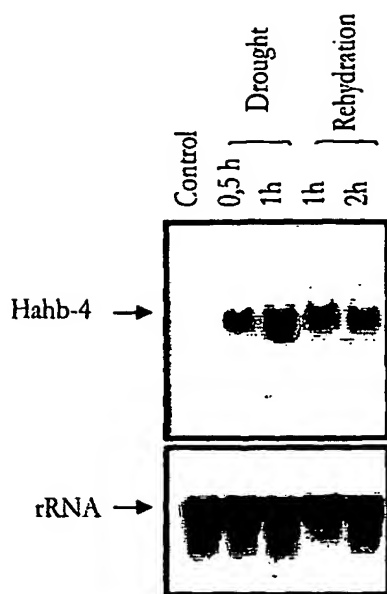


FIG. 3

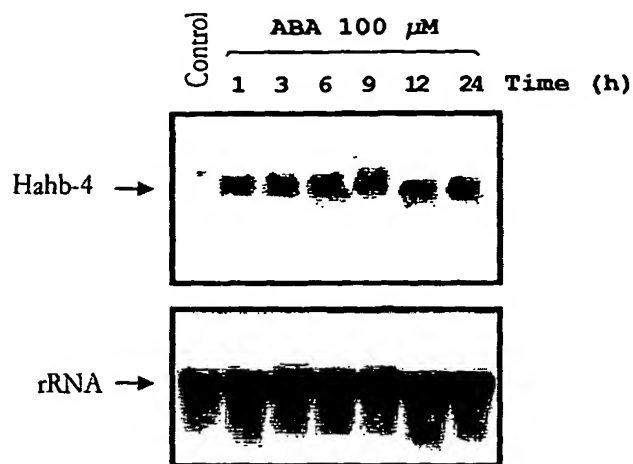


FIG. 4

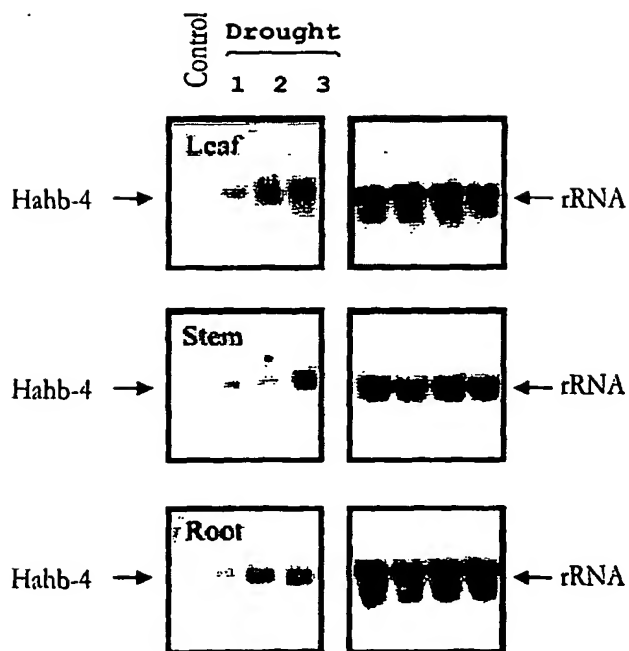


FIG. 5

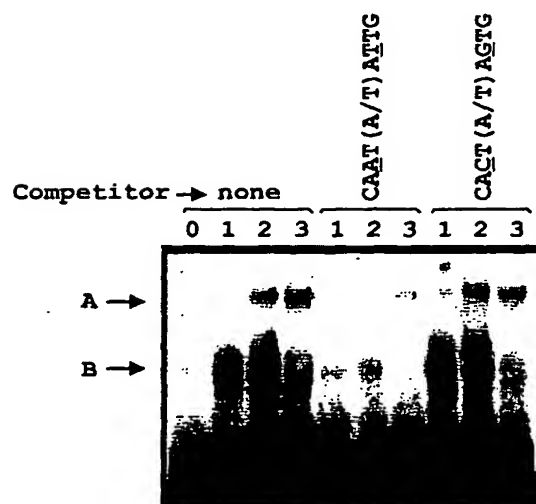


FIG. 6

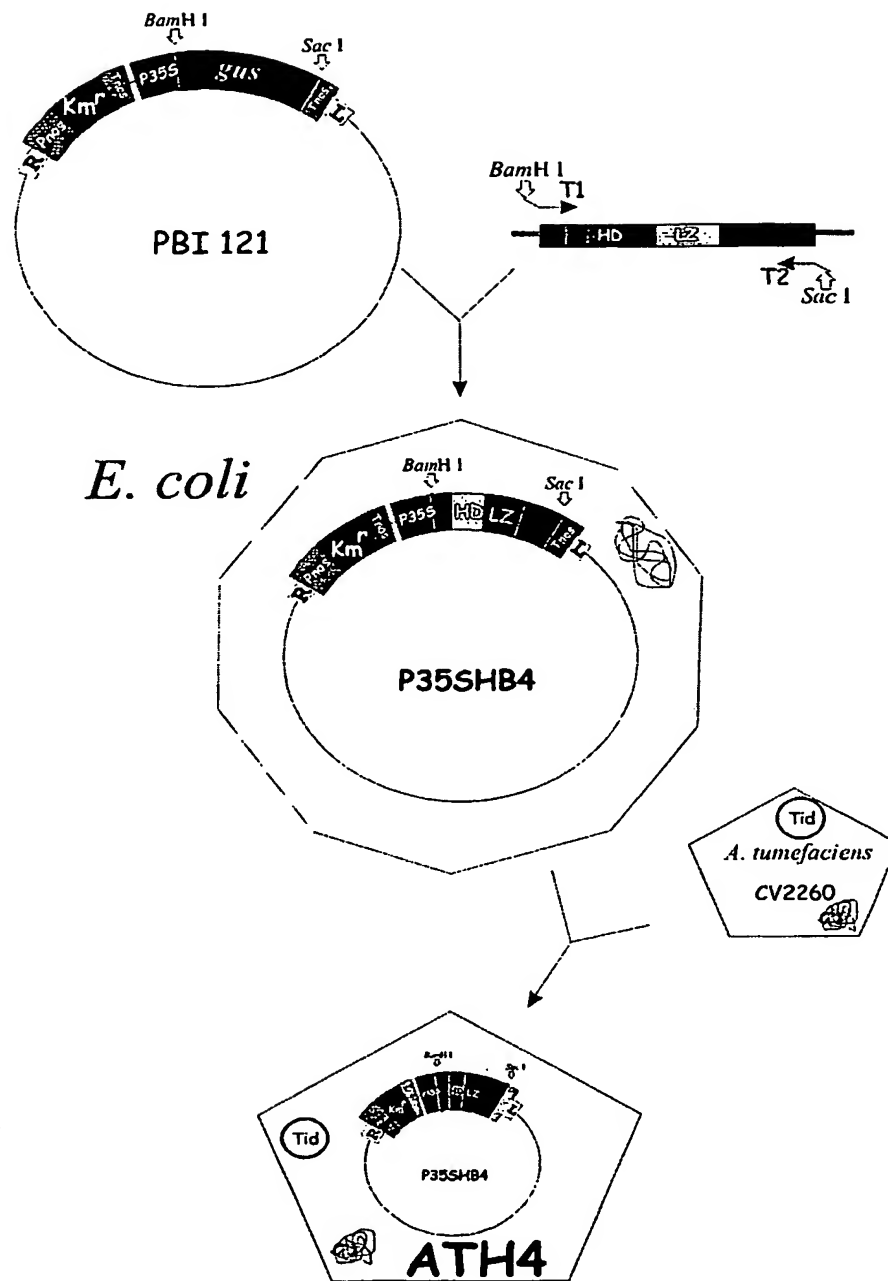


FIG. 7

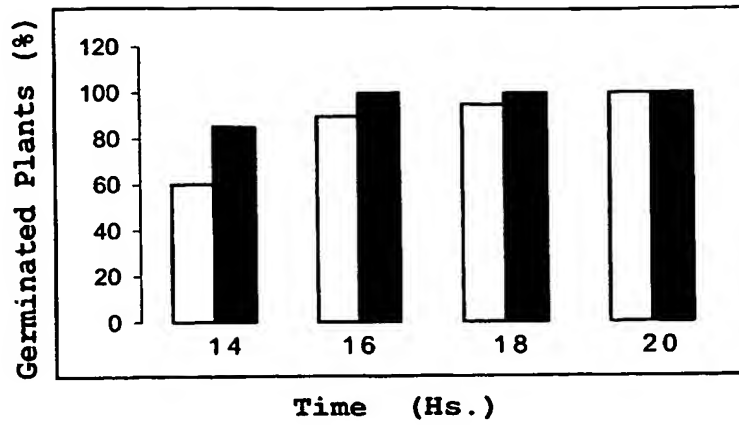


FIG. 8

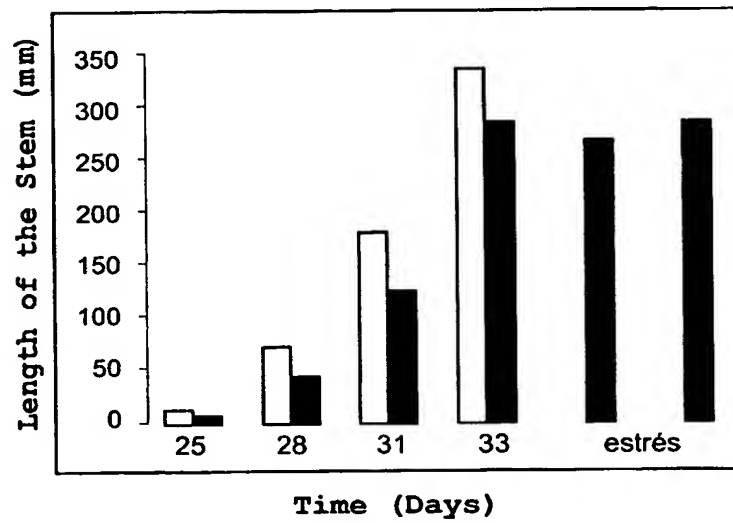


FIG. 9

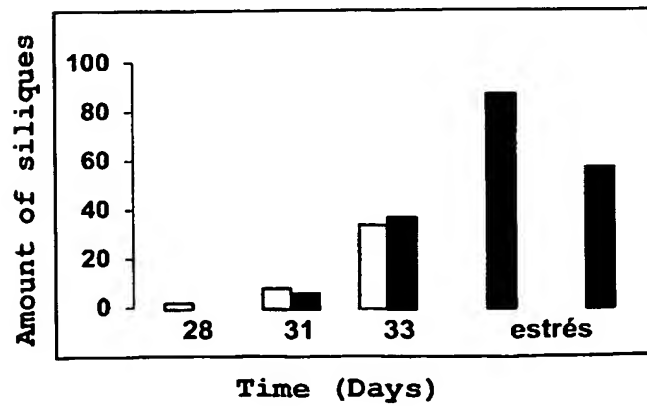


FIG. 10

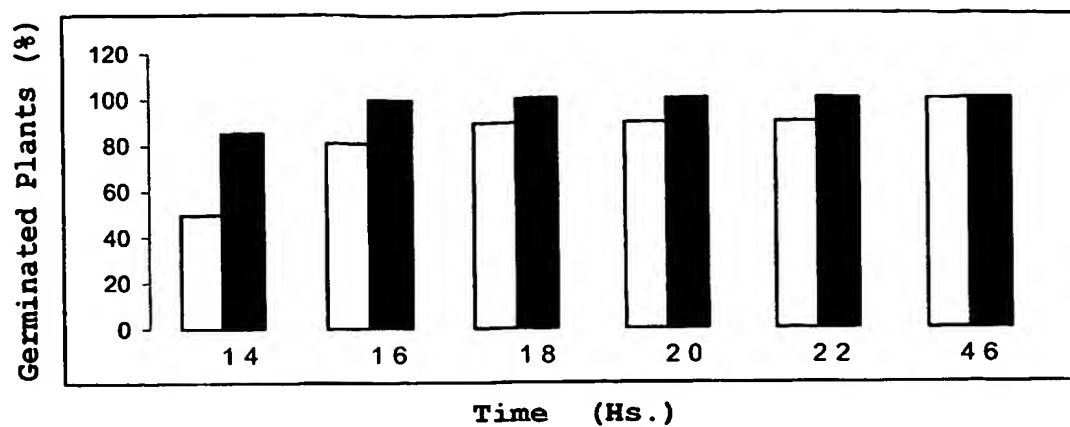


FIG. 11

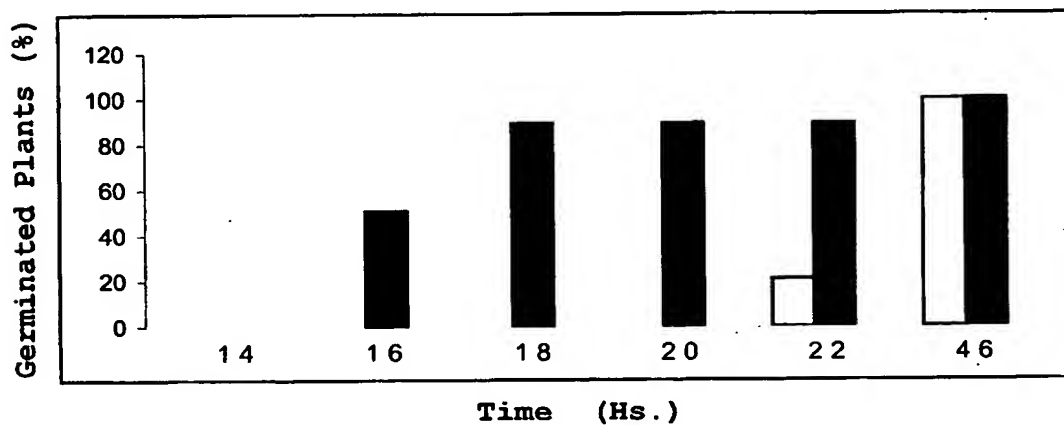


FIG. 12

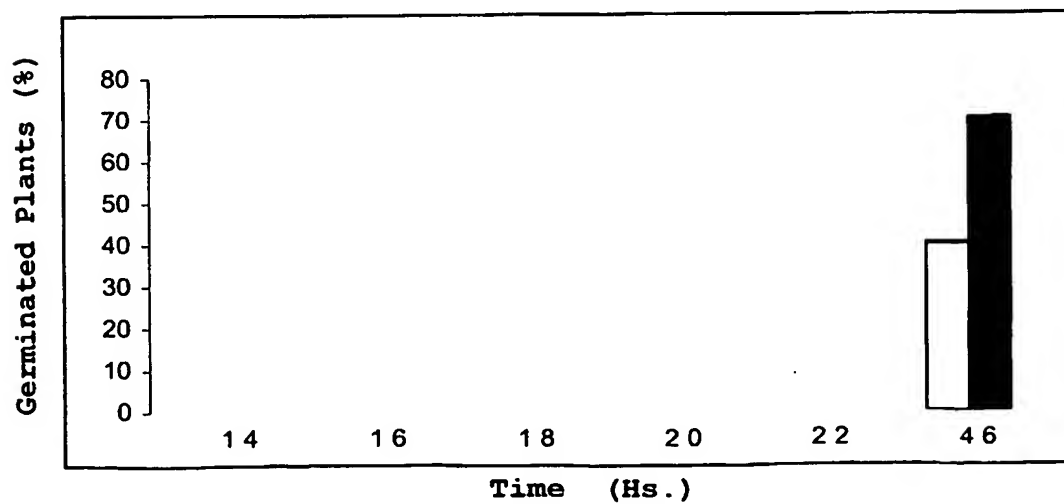


FIG. 13

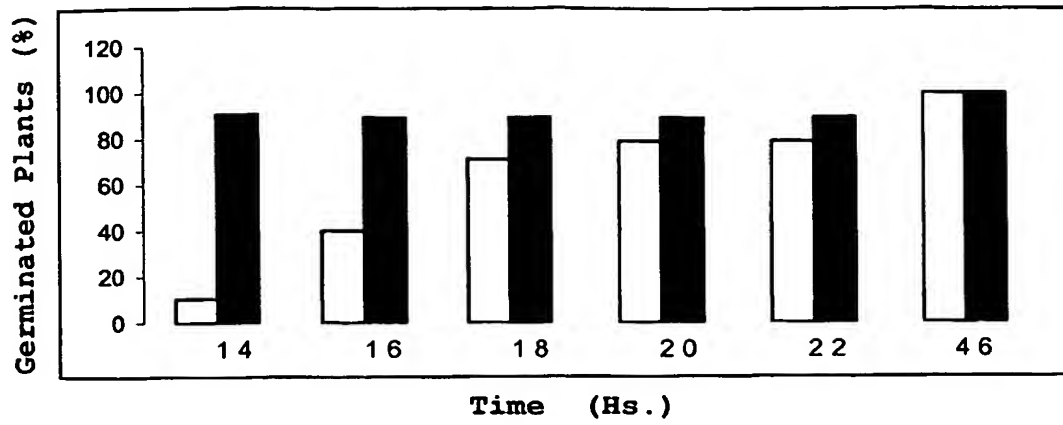


FIG. 14

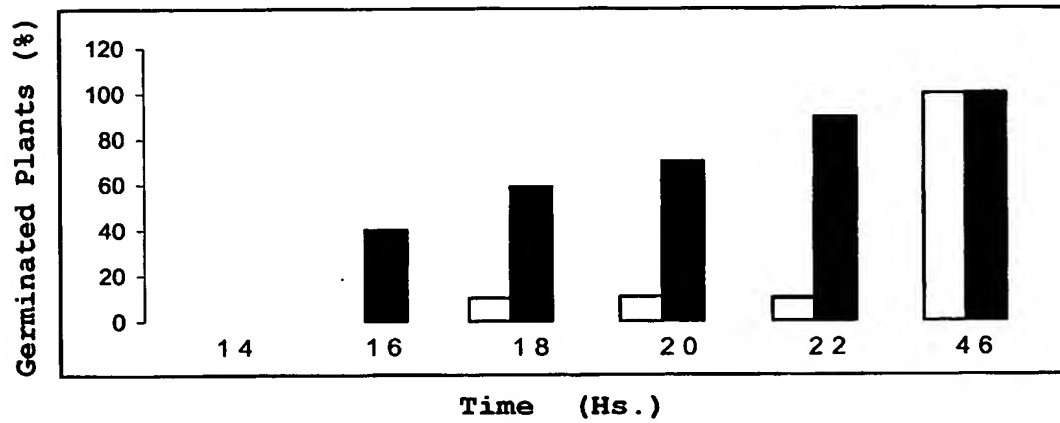


FIG. 15

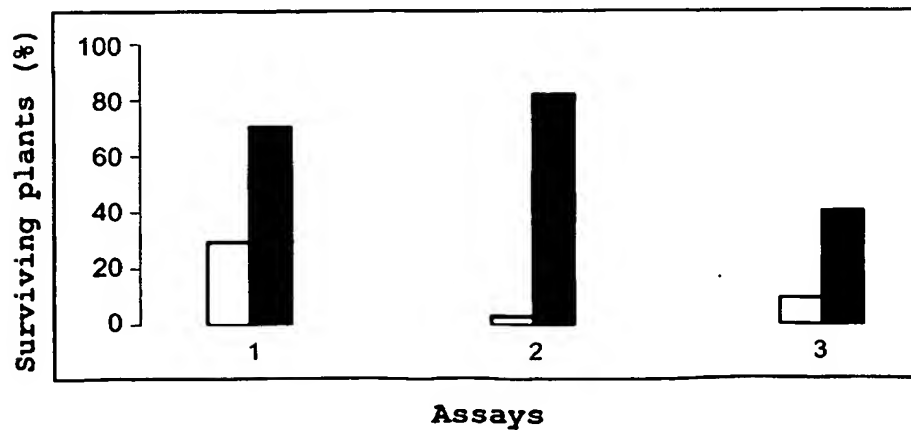


FIG. 16

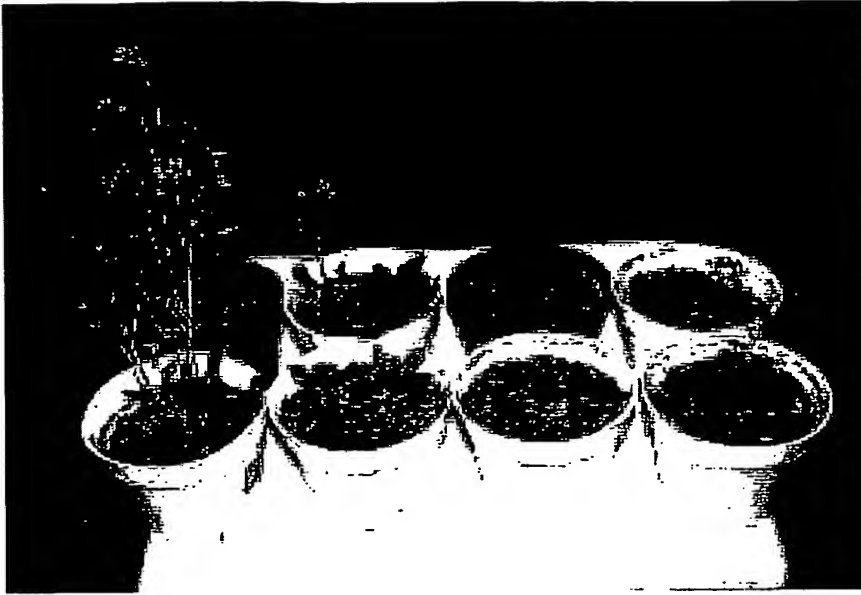


FIG. 17 a

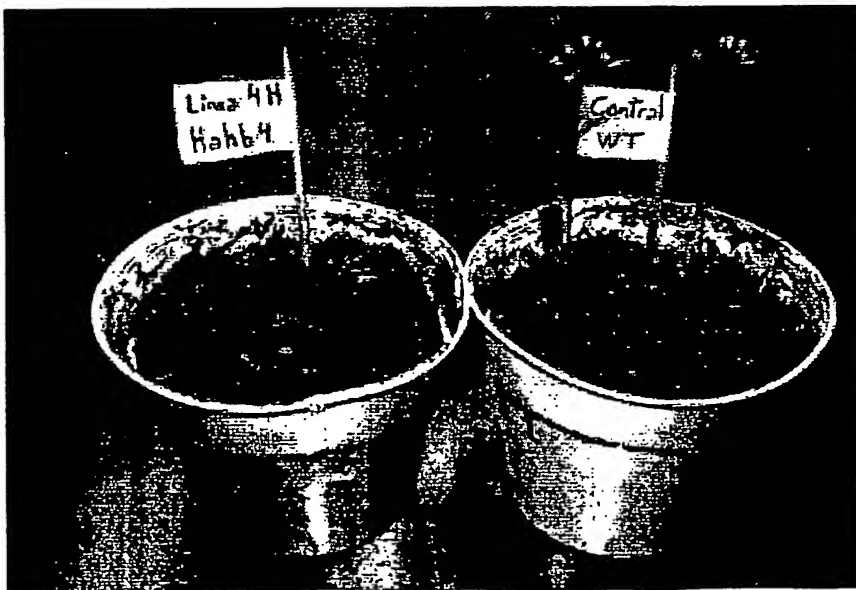


FIG. 17 b

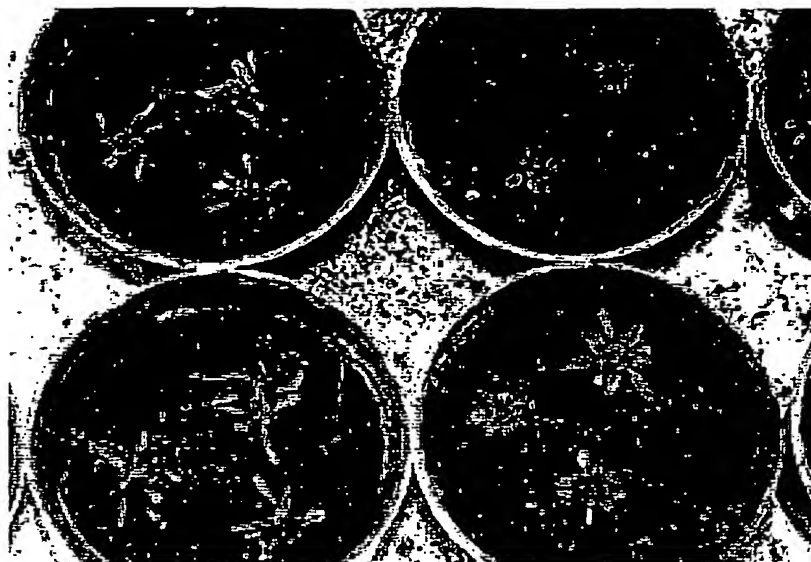


FIG. 17 c



FIG. 17d

-1221 GATCCAATTGGACCACCTGGCACATCGTATCTTATCTCTTTTGTCGTTTCCAACA
-1166 CACCACAACACACCTACAAACGTGTCAATTACACTTCACCAATTTCAATTCCTT
-1111 TTAGTCAATCATATTAAAAGTAGTAGCCCCACCCCCATTTGTACCTACCATT
-1056 CCCACTTTAATAATCACCCACGCTATGTCCACTTGTACTTTTGTTTGACACAAC
-1001 TCTTACCCATAAAATATCAAACCAAATTTTTTTTTAGTGGAACAAATTCCCAA
-946 ATAGAATACTAACGAAATTCATCGCATCAGAATACACTCATCTCTGAACAGTGGC
-891 GAAGCTTGACGTTTTTCGACGGGGGGTCGGAACGTATGTACCCGAAATTTCTAT
-836 AGAATCGGGGGTTCGAAAACGTATATACCCAAAATTTCTATACGAAAACACATA
-781 TATAACACTACTGAGCAAAAAGTTCGGGGGTTTCGGGCGCCCTCCCGGCCCTTCA
-726 AAGCTTCGCCAATGTCTCTGAACCGAAGAAAACCTCACTCGTCTACTAGCCAAT
-671 GAATCCTCACCAGGGAAAACCTCACTCGTCTTACTGGACTATTGGCGCTTCCAA
-616 ATGGACTACTTGCGAAATTCACCACATCGGGATACACTCGTCTACTGCGGTGAGG
-561 TAAAACCCGCTTGGCTCAAGGGTACGAACTAGCGATTGCTGCCTACTCGCCTAAT
-506 CTCCATCATCAACCAGGTGCCGCCGAACAAATGCTGGGGCGGAGTTGAAGCCTAGG
-451 GTCCAGTGACGCACCCATGAATTTTTTTCTAGGGATGCGAACGAGTGGTTTAACC
-396 ATACTTTTAAGAGGTGCGGATCGGAAATTTTACCTATAAAATACACTAAAAAGT
-341 TCCAAGGGTCCACCCACCCCTTAACCTAAGTCCGCCTTTGTCTGGATCACGTGAA
-286 ACATCAGGTCTCTCCCTTACCAGTCCAGCTACGACTCATTGACAAAATATCAAAA
-231 CCATATGATTTTGAGTTTATCTCAACCGAAAGTGACATCATGACAGAGAATCGA
-176 CATAACCATAACGTTAAACGTACAACCTACCATTGCGTTGAAAAGGACAGAACA
-121 GGTAGGATTCTCGTCAAATTC AACCGTACACCTGTGCTTCATCTAAACCCATA
-66 CTTTTAAGAACCCTTTATAAAGACCACTCACTATATATACACATATATAATATCAC
-11 TTATCAAACCC+1

FIG. 18

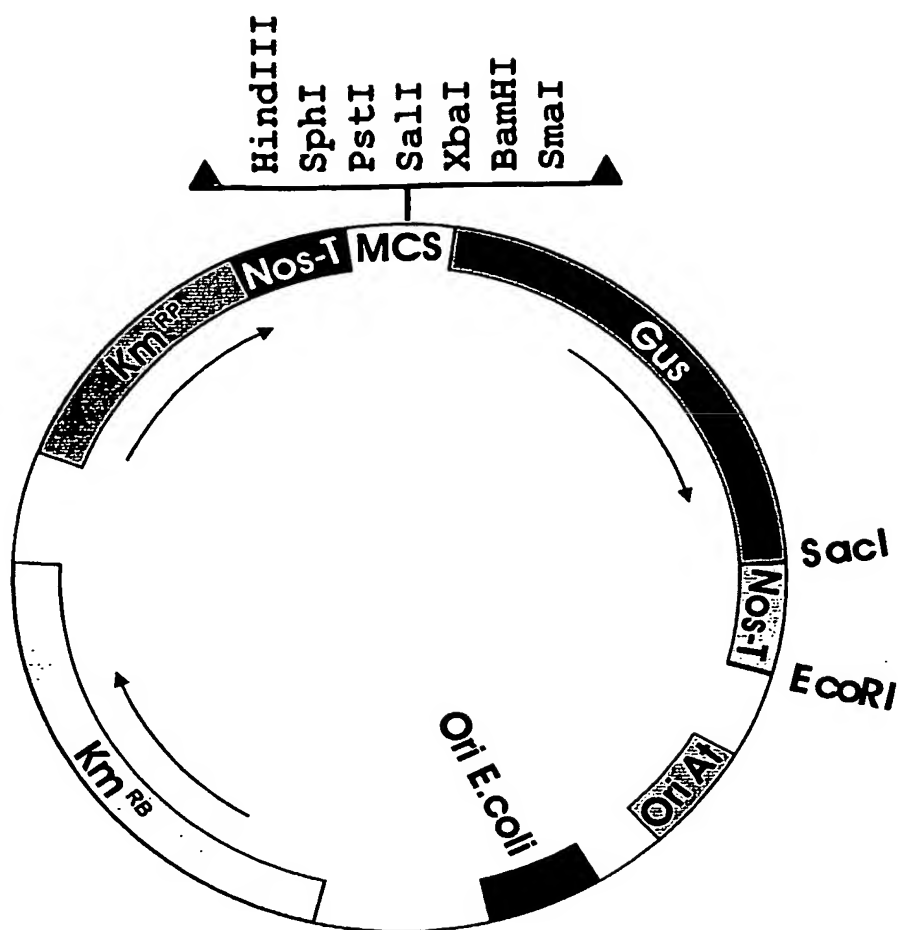


FIG. 19

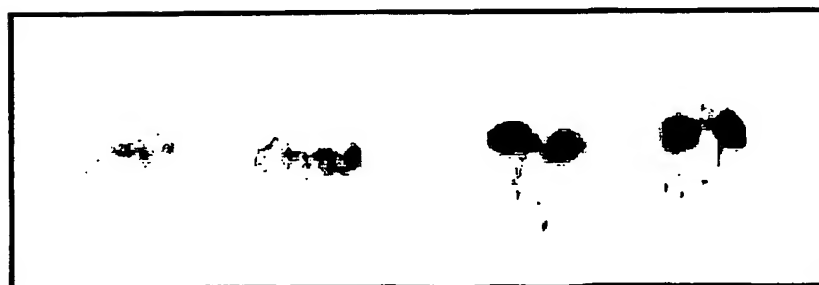


FIG. 20

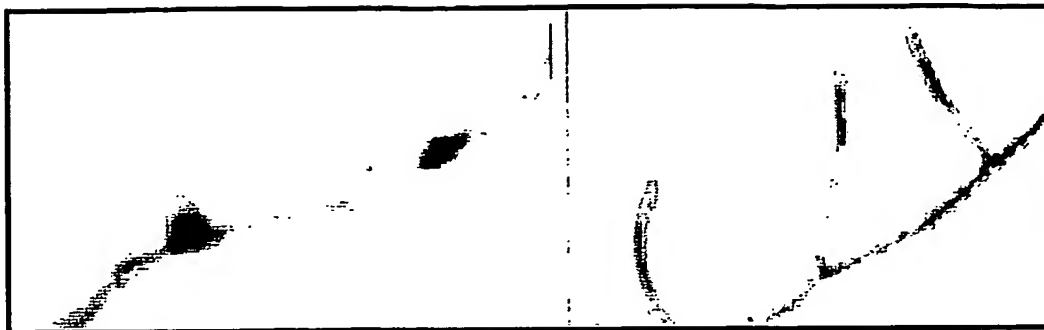


FIG. 21 a

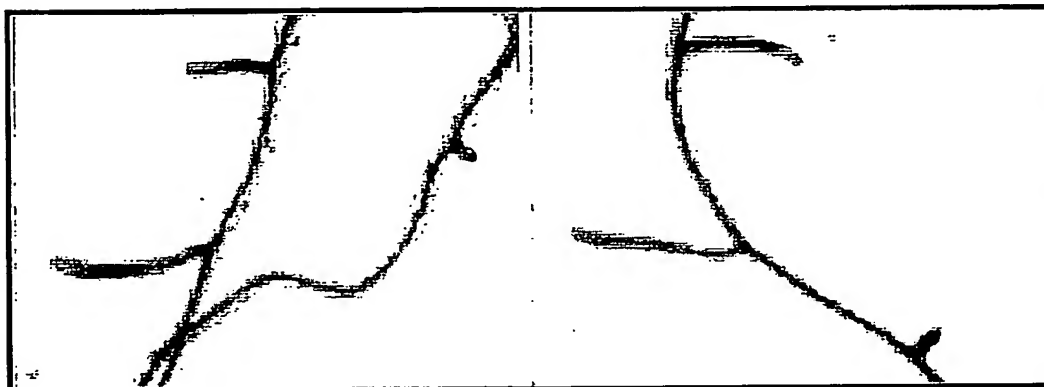


FIG. 21 b



FIG. 21 c



FIG. 22

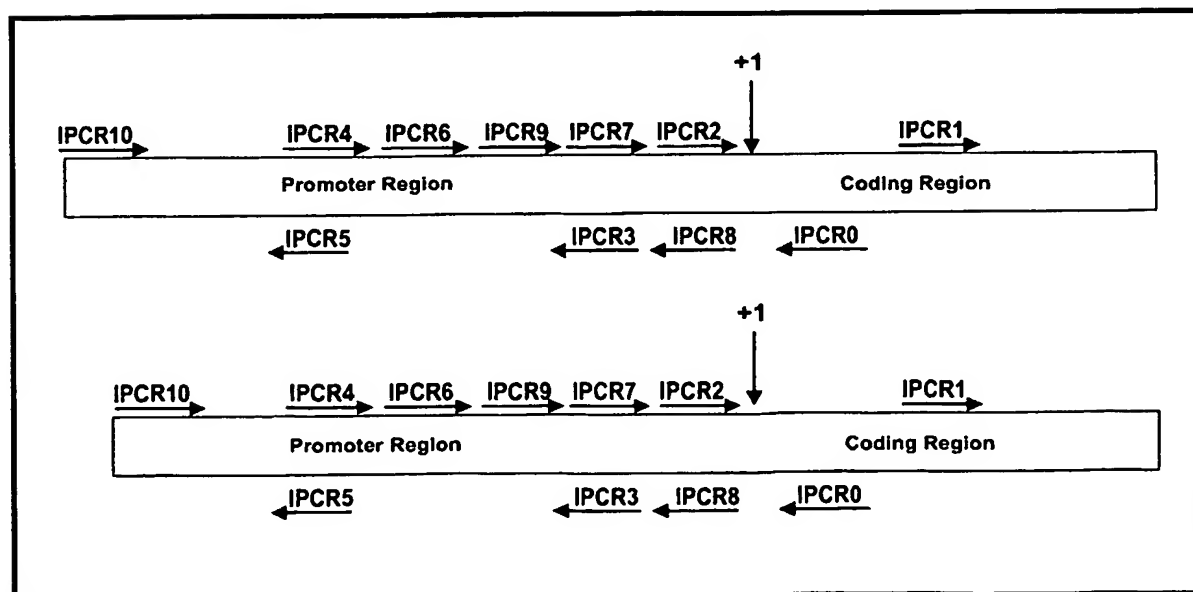


FIG. 23